

Resource Summary Report

Generated by [NIF](#) on Sep 8, 2026

CD31

RRID:AB_394816

Type: Antibody

Proper Citation

BD Biosciences Cat# 553370, RRID:AB_394816

Antibody Information

URL: http://antibodyregistry.org/AB_394816

Proper Citation: BD Biosciences Cat# 553370, RRID:AB_394816

Target Antigen: CD31

Host Organism: rat

Clonality: monoclonal

Comments: Flow cytometry

Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE

Antibody Name: CD31

Description: This monoclonal targets CD31

Target Organism: mouse

Defining Citation: [PMID:16927265](#)

Antibody ID: AB_394816

Vendor: BD Biosciences

Catalog Number: 553370

Record Creation Time: 20231110T081126+0000

Record Last Update: 20260831T181851+0000

Ratings and Alerts

- Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE - NYU Langone's Center for Biospecimen Research and Development <https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development>

No alerts have been found for CD31.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 129 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Feng JX, et al. (2026) Single-cell lineage tracing identifies hemogenic endothelial cells in the adult mouse bone marrow. eLife, 15.

Drekolia MK, et al. (2026) Cystine import and oxidative catabolism fuel vascular growth and repair via nutrient-responsive histone acetylation. Cell metabolism, 38(1), 115.

Iba T, et al. (2026) CD157+ vascular endothelial stem cells represent a conserved subpopulation with an angiogenic gene expression profile. Stem cell reports, 21(7), 102931.

Aydin E, et al. (2026) Clec3b+ extraskelatal cells regulate fracture healing and heterotopic ossification. Bone research, 14(1).

Seo J, et al. (2026) KLS-3021, a multifunctional oncolytic virus, demonstrates potent early-intervention efficacy in preclinical models of prostate-confined and locally advanced prostate cancer. Frontiers in oncology, 16, 1765625.

Zhang Y, et al. (2026) Stem cell control in the lung by an autocrine injury-activated Igf complex. Science (New York, N.Y.), 392(6795), eadt1310.

Wetterwald L, et al. (2026) MYCT1-IFITM2/3 interaction links endothelial endolysosomal trafficking to white adipose tissue expansion. The Journal of experimental medicine, 223(5).

Li Z, et al. (2026) Decoding the spatiotemporal development of the blood-brain barrier in human cortex. Cell stem cell, 33(5), 853.

Prakash A, et al. (2025) Mitochondrial-activity-driven hematopoietic stem cell fate and lineage choice is first established in the aorta-gonad-mesonephros. Cell reports, 44(10), 116296.

Miao Y, et al. (2025) Co-development of mesoderm and endoderm enables organotypic vascularization in lung and gut organoids. *Cell*, 188(16), 4295.

Han F, et al. (2025) Lymphatic endothelial mTORC1 instructs metabolic and developmental signaling during lymphangiogenesis. *Developmental cell*, 60(17), 2331.

Graves SI, et al. (2025) p16-expressing microglia and endothelial cells promote tauopathy and neurovascular abnormalities in PS19 mice. *Neuron*, 113(14), 2251.

Sendra M, et al. (2025) Myocardium and endocardium of the early mammalian heart tube arise from independent multipotent lineages specified at the primitive streak. *Developmental cell*.

Gonyea CR, et al. (2025) The nitrofen/bisdiamine murine model of congenital diaphragmatic hernia has a pulmonary hypertension vascular phenotype consistent with human CDH. *American journal of physiology. Lung cellular and molecular physiology*, 329(1), L48.

Makris S, et al. (2025) Lymph node fibroblast phenotypes and immune crosstalk regulated by podoplanin activity. *Cell reports*, 44(7), 115908.

Ueda C, et al. (2025) Endothelial activating transcription factor 3 promotes angiogenesis and vascular repair in the mouse retina. *iScience*, 28(1), 111516.

Katdare KA, et al. (2025) IQGAP2 regulates blood-brain barrier immune dynamics. *iScience*, 28(3), 111994.

Li Q, et al. (2025) Stromal Cell-Mast Cell Communication Orchestrates Anti-Viral Immunity in the Meninges. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, e14842.

Männistö A, et al. (2025) Combined angiogenic and hypertrophic gene therapy enhances skeletal muscle growth. *American journal of physiology. Cell physiology*, 329(2), C540.

Lu Z, et al. (2025) Cardiac mural cells are rate-limiting for coronary vascularization after heart injury. *iScience*, 28(10), 113536.